

MCCR Checklist for The Hunchback V10

Before a dive

1. I feel ok to dive today!
2. I have checked my bailout system and it is ok for this dive (s).
3. All my bottles are marked with MIX and MOD.
4. I have checked my sensors mV readings and they are ok for the dive (s).
5. I have checked my PO2 readers, the batteries, and they are ok for the dive (s).
6. I have checked & analyzed my O2 cylinder for pressure and content, and it is 100% O2.
7. I have checked & analyzed my onboard diluent and it is _____ which is an ok gas for this dive(s).
8. I have checked and analyzed my off board bailout bottle (s) for pressure and content, and it is _____ which is ok for the dive(s) I have planned for.
9. I have checked my scrubber and it is fresh or it has been used for ____ hr(s) & ____ min, last depth using this scrubber was _____ when: _____ (YYMMDD).
10. I am using _____ kg of lead and a _____ plate which weigh _____ kg.
11. I have inspected and tested my mush room valves in my DSV that they work properly.
12. I have done a negative pressure test of the loop of a fully assembled HB and kept it for at least 30 seconds, when I finally re-opened the DSV it made a loud “phuah” sound.
13. I have done a positive pressure test of the loop of a fully assembled HB and kept it inflated for at least 2 minutes, when I finally re-opened the DSV it made a loud “phuah” sound.
14. I have turned on my Shearwater computer display and HUD. All is working well. I have programmed the right CC & OC gases for this dive(s)
15. I have fully opened my O2 bottle. I hear the O2 through the CMF valve. I have tested to inject O2. All works well.
16. I have flushed the loop 2 times with pure O2 and calibrated all O2 sensors with the Shearwater computer and after calibrated the HUD (six quick pushes to the button). All systems calibrated ok. Close the O2 valve. Purge the remaining O2 with the CMF valve.
17. I have fully opened the diluent valve and tested the ADV and the BOV. I have also checked the SPG for pressure and if there is any leakage of diluent. Close the valve.
18. I have tested my bailout bottle and regulator and I have also checked that the marked bottle gas mix is ok for the dive.

Directly before diving

1. Do a negative and positive test of the loop. Open both valves and check SPG.
2. Check CMF valve and ADV.
3. Check Wing inflator.
4. Check bailout regulator and bottle.
5. Check BOV mouthpiece function (Switch between OC & CC). Shut off all valves.
6. Switch on Shearwater HUD and Shearwater PROCTE-E computer.
7. Pre-breath for 5 minutes.
8. Check that the right the right gas for the dive is selected on the computer
9. Double check that the all the valves are open.

Sources: IART JJ CCR User Manual, Jetsam Classic Kiss Manual, IANTD KISS Rebreather Diver, CCR Trimix Simplified By Dr. Mel Clarke, Mastering Rebreathers By Jeffrey E. Bozanic

10. Test and fill wing. Test dry suit inflation.
11. Ready to jump into the water!

In water

1. In the water do a bubble check with my buddy and a safety check of the bailout bottle.
2. Perform a safety stop at 6 meter to check again for bubbles and to verify all sensors.
3. Once at the bottom (or planned depth) do a quick bubble check and check the PO2. Verify the operation of the CMF valve and sensors. Inject small bursts of O2 to bring up the PO2 to 1.4. Monitor the PO2 and when need add more O2 with a quick burst.

Between dives

1. Turn off electronics and O2 valve. Purge the CMF valve!
2. Open the canister lid, if possible. Otherwise open P-Ports for ventilation
3. Disconnect left hose connected to the T-adapter. Let it hang freely to ventilate the collected mucus from the loop.
4. Purge water from the left counter lung

After diving

1. Switch off computer, HUD, and O2 valve.
2. Close diluent valve.
3. Remove loop with BOV
4. Remove the lid from the scrubber.
5. Allow lid and scrubber to air dry in safe place.
6. Rinse left counter lung, hoses and BOV. Disinfect when needed. Let it air dry in dark and dry area.
7. Refill cylinders, if necessary, or change diluent bottle.
8. Check scrubber time, change if needed. When in doubt, always change the scrubber!

KNOW YOUR PO2 AT ALL TIMES!

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BE ALERT & STAY ALIVE!